

Genus Datasheet

DBT- Network

Datasheet No. G-002.001
Programme
(Family.Genus)

1. Genus: *Bowenia* Hook. ex Hook.f.

~~Kingham: Blah~~ Hooker (1862)

Division: Phanerogamia

Class: Gymnospermeae

Ordo: Cycadaceae Pers.

Tribus: Encephalarteae

Genus: *Bowenia* Hook. ex Hook.f.

2. Systematic Position:

Christenhusz et al. (2011)

- Class: Equisetopsida C. Agardh
- Subclass: Cycadidae Pax
- Order: Cycadales Pers.
- Family: Zamiaceae Horan.
- Genus: *Bowenia* Hook. ex Hook.f.

3. Species:

Global: 2

India: 2

4. Taxonomic riddles: ^{10, 11, 12, 13, 14}

5. Distribution:

Global: [Australia](#), India

India: Orissa, Uttar Pradesh

6. Habit and Habitat: Small as cycads, *B. spectabilis* grows in warm, wet, tropical [rainforests](#), on protected slopes and near streams, primarily in the lowlands of the Wet Tropics Bioregion. *B. serrulata* grows in

sclerophyll forest and transition forest close to the Tropic of Capricorn.

7.Economic Importance: Leaves are used commercially for decorative purposes. Plants are par
ornamentals because of their small size and shade tolerance

8. DNA content range: Methodology

2C 25.56pg Feulgenmicrodensitometry⁴

2C 41.40pg Flow cytometry⁹

9. Basic chromosome number(s): $x=9$ ^{1, 2, 3, 4, 5, 8}

10. Zygotic chromosome number(s): $2n=18$ ^{2, 3, 5, 6, 7}

1. Gametic chromosome number(s): $n=9$ ⁸

**12. Specialized chromosomes (B chromosomes/Sex chromosomes/Polytene Chromosomes/
Neocentric chromosomes):**

13. Ploidy level:Diploid^{2, 3, 5, 6, 7, 8}

14. Nature of polyploidy (auto, segmental, allo, autoallo):

15. Aberrant chromosome number(s) (aneuploidy, aneusomaty, polysomaty):

17. Banding pattern(s):

18. Physical mapping of chromosomes: ³

GISH:

19. Phylogenetic relationship at Chromosomal; DNA level: ^{10, 11, 12, 13, 14}

20. Cytogenetic mechanism (s) underlying evolution:

21. Linkage map:

22. Any other information: